

**Amendments to the Drawings:**

The attached 34 sheets of drawings include changes to Figure 16A. Figure 16A corrects the typographical error, which was located in the second line of the drawing. The SMP number was incorrectly listed as "248" and has been corrected to read "348". These sheets, which include Fig. 16A, replace the original sheets including Fig. 16A.

Attachment: 34 Replacement Sheets, Figures 1A – 26C

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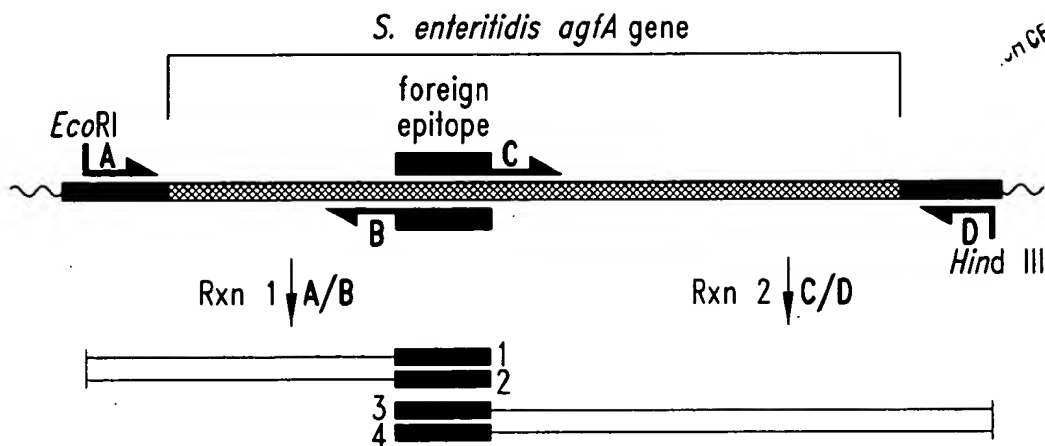


Fig. 1A

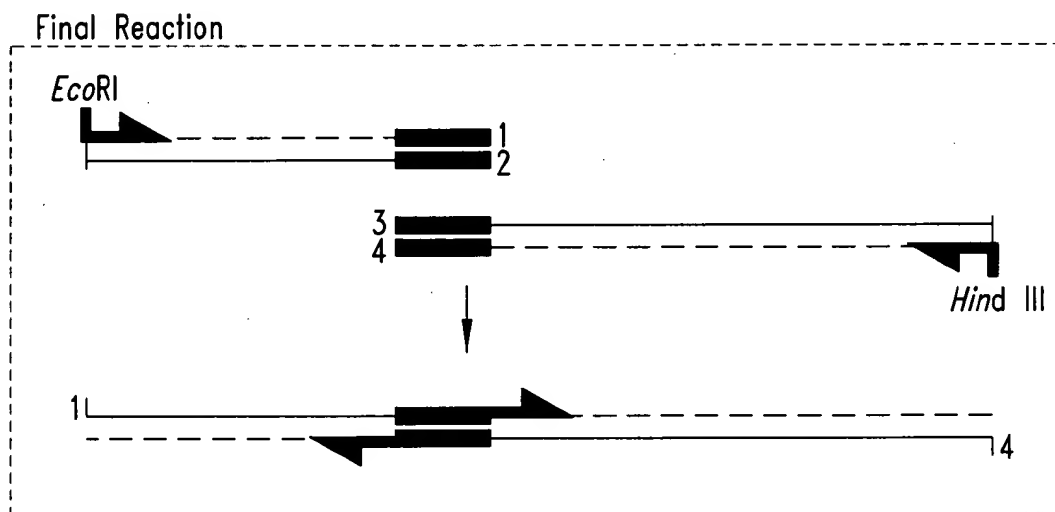


Fig. 1B



Fig. 1C

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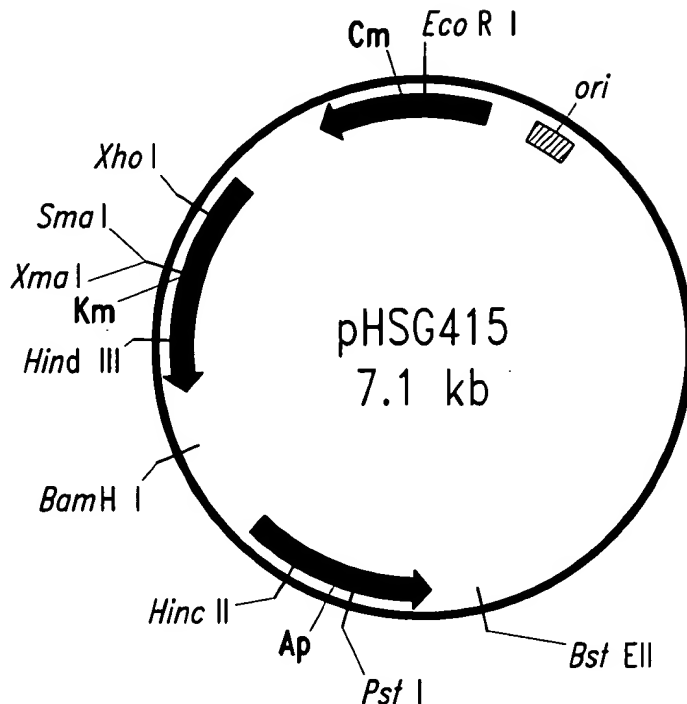


Fig. 2A

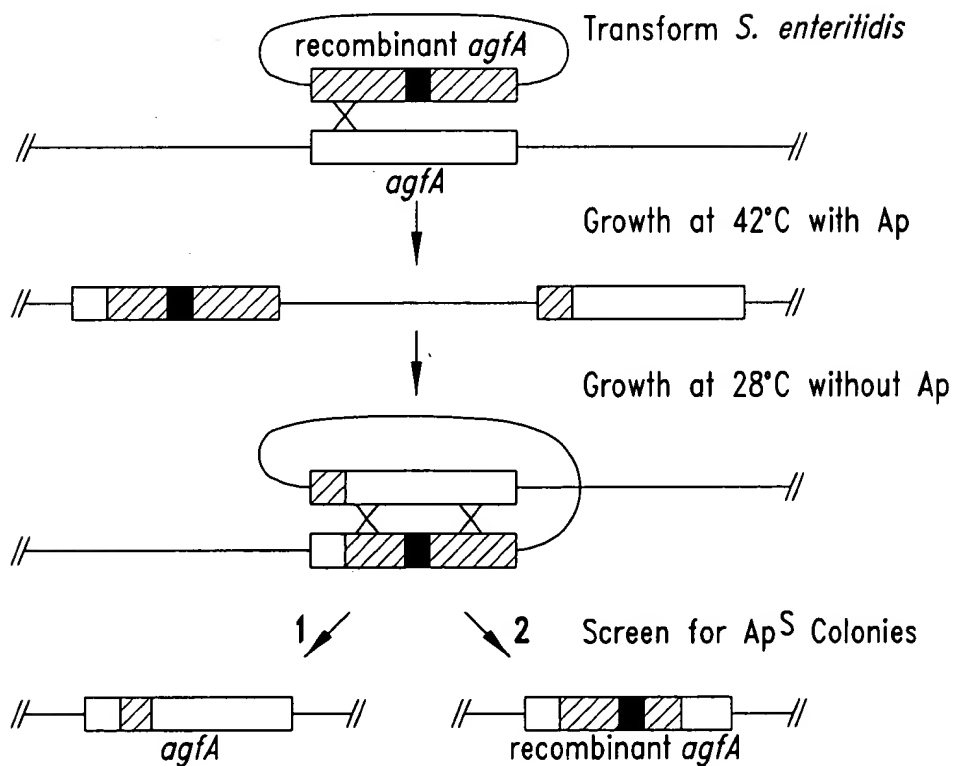


Fig. 2B



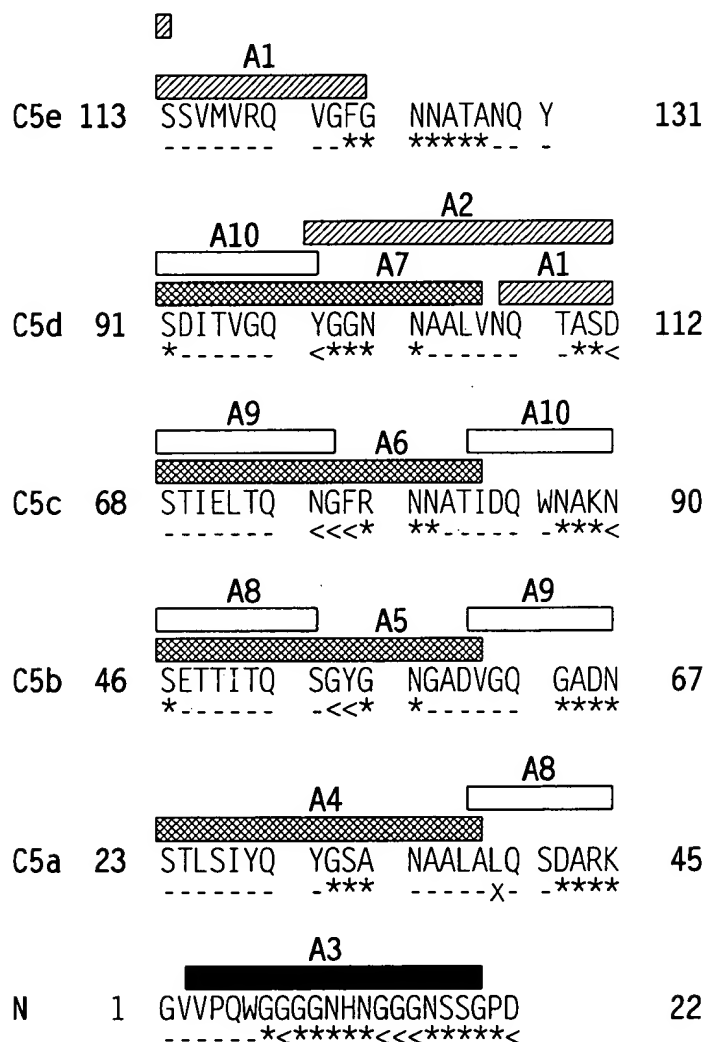
JUN 7 2004  
 WATER 1500/2366

PT3 epitope of *L. major*

YDQLVTRVVTHEMAHA  
 -----XXXXXXXXX

*Fig. 3A*

AgfA amino acid sequence



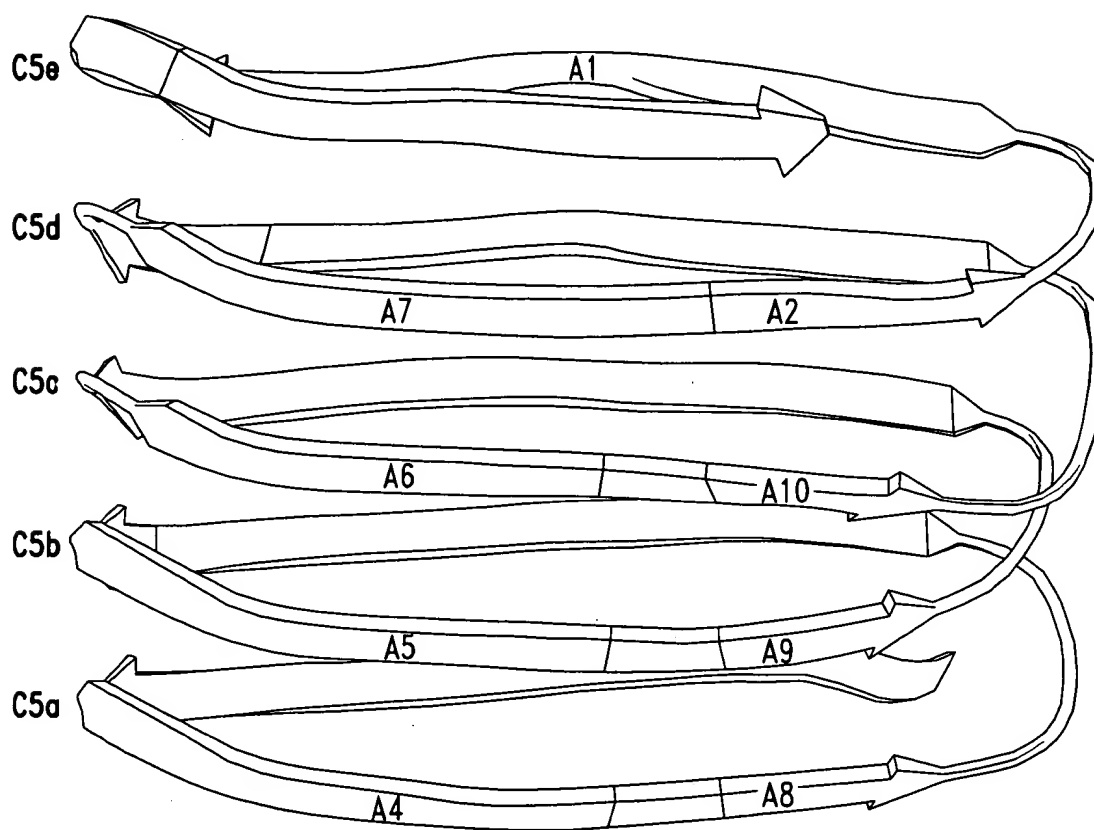
*Fig. 3B*



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Parallel  $\beta$ -helix model of AgfA



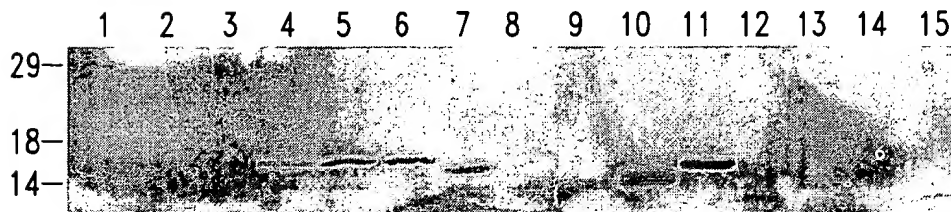
*Fig. 3C*

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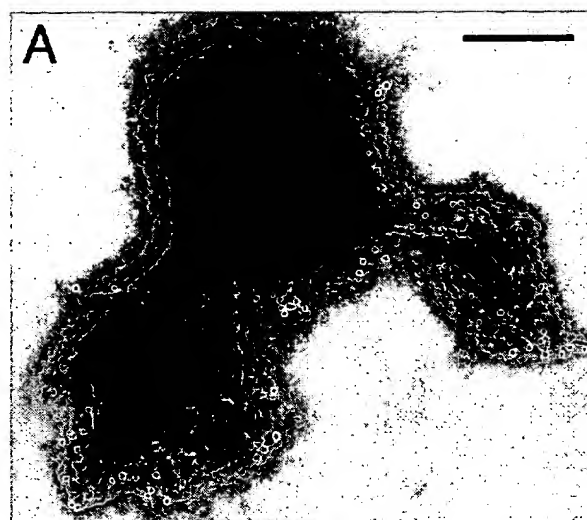
*Fig. 4A*



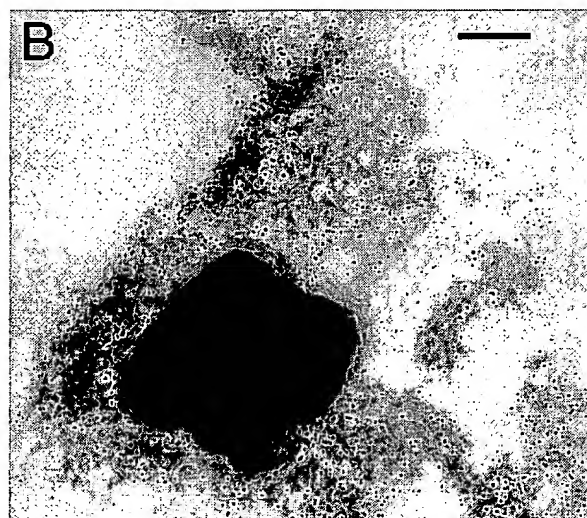
*Fig. 4B*

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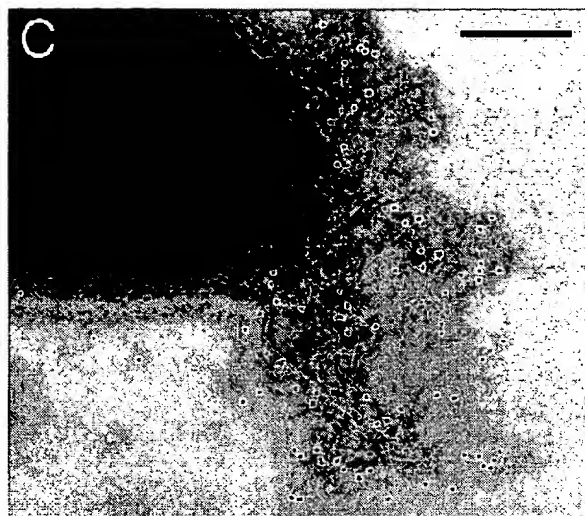
*Fig. 5A*



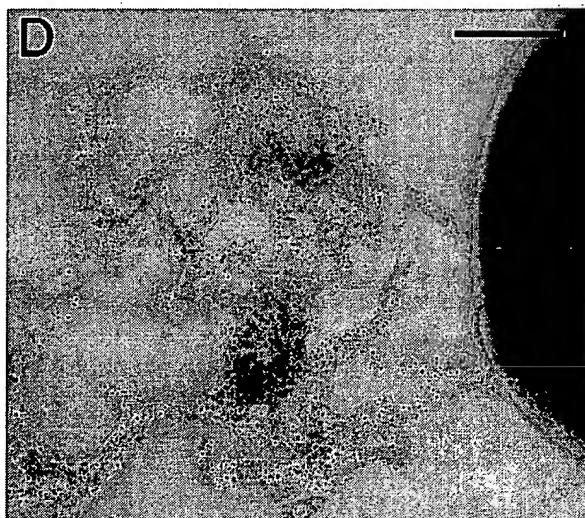
*Fig. 5B*

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*Fig. 5C*

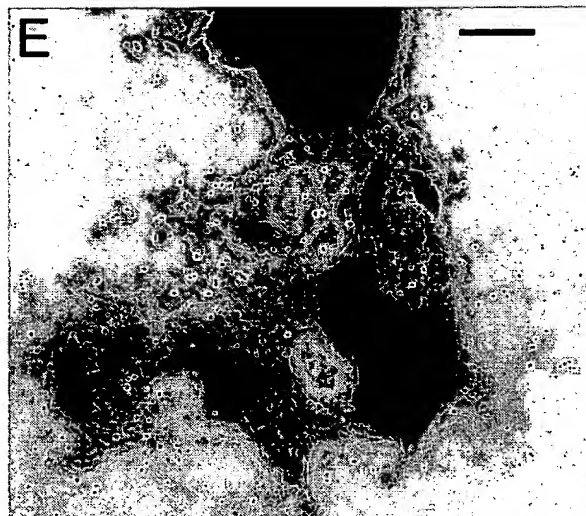


*Fig. 5D*

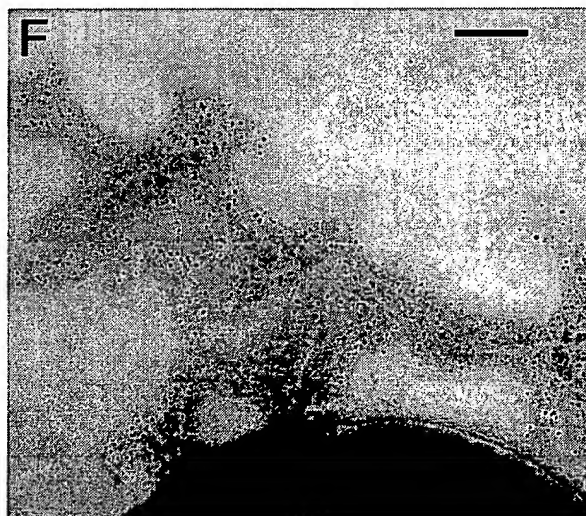




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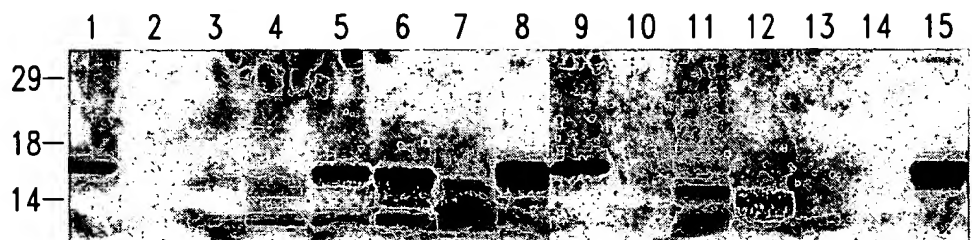


*Fig. 5E*



*Fig. 5F*

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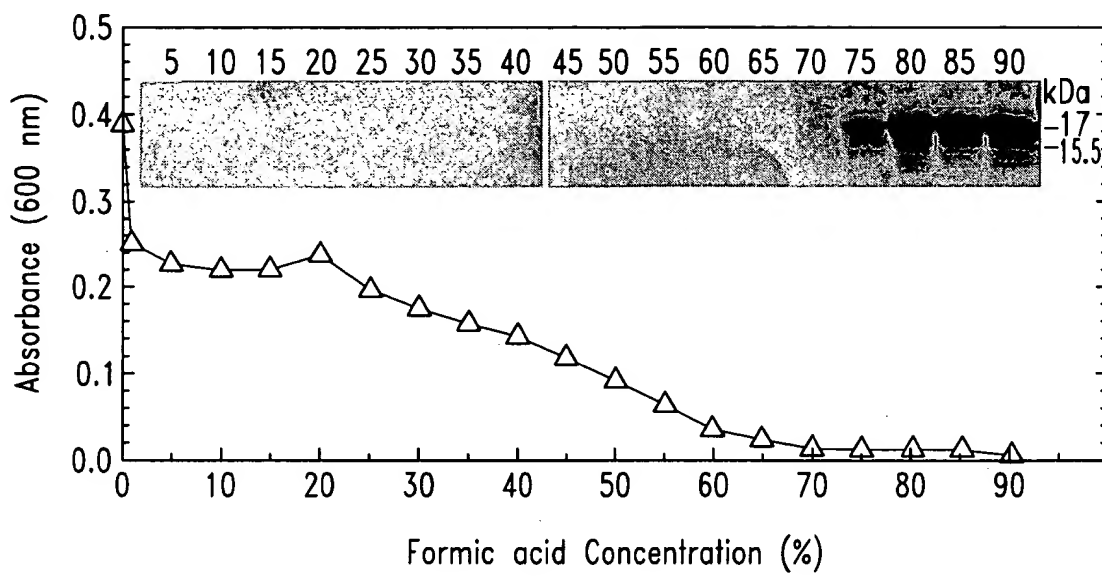
*Fig. 6A*



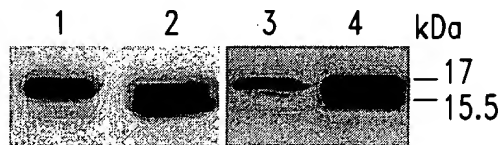
*Fig. 6B*

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*Fig. 7*



*Fig. 8*



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N (22)	C (109)
N (22)	C2a (45)
N (22)	C5a (23)
	C5b (24)
	C5c (23)
	C5d (24)
	C5e (19)

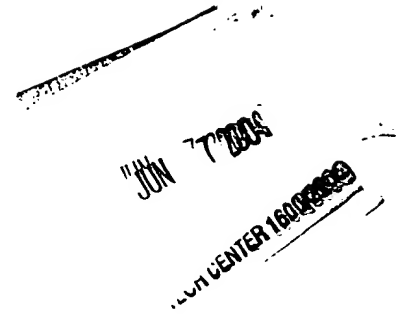
Fig. 9A

C2a 43 ARKSETTITQSGYGNGADVGQGGADNSTIELTQNGFRNNA T I D Q W N  
 C2b 88 - K N - D I - V G - Y - G N - A - L - N - T - S D - S V M V R - V - - G - - - - A N - Y

Fig. 9B

N	1	G	V	P	Q	W	G	G	G	G	N	H	N	G	G	G	N	S	S	G	P	D
C5a	23	S	T	L	S	I	Y	Q	Y	G	S	A	N	A	G	A	L	A	L	Q	S	D
C5b	46	S	E	T	T	I	T	Q	S	G	Y	G	N	A	D	V	G	Q	Q	-	G	A
C5c	68	S	T	I	E	L	T	Q	N	G	F	R	N	A	T	I	D	Q	Q	W	N	A
C5d	91	S	D	I	T	V	G	Q	Y	G	G	N	A	L	V	N	Q	-	T	A	S	D
C5e	113	S	S	V	M	V	R	Q	V	G	F	G	N	A	T	A	N	Q	Q	Y		

Fig. 9C



1    3    5    7    9    12 14 16 18  
 S x x x x x Q x G x x N x A x x x Q (x) x A x x

*Fig. 9D*

	S x I $\phi$ I x Q	N x I $\phi$ I x Q
C5a	L S I	A <span style="border: 1px solid black; padding: 0 2px;">L</span> A
C5b	<span style="border: 1px solid black; padding: 0 2px;">T</span> T I	A D V
C5c	I E L	A T I
C5d	I T V	A <span style="border: 1px solid black; padding: 0 2px;">L</span> V
C5e	V <span style="border: 1px solid black; padding: 0 2px;">M</span> V	A T A

*Fig. 9E*



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1	G	V	V	P	Q	W	G	G	G	N	H	N	G	G	G	N	S	S	G	P	D		
aix	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c		
hie	c	c	e	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c		
gar	e	e	e	e	e	e	c	t	c	c	c	c	c	t	t	t	c	c	c	c	t		
gib	e	e	e	e	e	e	c	c	c	c	e	c	c	c	c	c	c	c	c	c	c		
nnp						e																	
23	S	T	L	S	I	Y	Q	Y	G	S	A	N	A	A	L	A	L	Q	S	D	A	R	K
aix	c	e	e	e	e	e	e	c	c	c	c	h	h	h	h	h	h	h	h	c	c	c	c
hie	c	c	e	e	e	e	e	c	c	c	c	h	h	h	h	h	h	h	h	c	c	c	c
gar	e	e	e	e	e	e	e	e	c	c	c	h	h	h	h	h	h	h	h	h	h	h	h
gib	e	e	e	e	e	e	e	e	c	h	h	h	h	h	h	h	h	h	h	h	h	h	c
nnp			e	e	e	e	e	e				h	h	h	h	h	h	h	h				
46	S	E	T	T	I	T	Q	S	G	Y	G	N	G	A	D	V	G	Q		G	A	D	N
aix	c	c	e	e	e	e	c	c	c	c	c	c	c	c	c	c	c	c		c	c	c	c
hie	c	c	e	e	e	e	e	c	c	c	c	c	c	c	c	c	c	c		c	c	c	c
gar	c	e	e	e	e	e	e	e	t	t	c	c	e	e	e	e	e	e		c	c	c	c
gib	c	e	e	e	e	e	e	e	e	c	c	c	c	e	e	e	e	e		c	c	c	c
nnp			e	e	e	e	e																
68	S	T	I	E	L	T	Q	N	G	F	R	N	N	A	T	I	D	Q	W	N	A	K	N
aix	c	e	e	e	e	c	c	c	c	c	c	c	h	h	h	h	h	h	h	c	c	c	c
hie	c	e	e	e	e	c	c	c	c	c	c	c	c	c	e	e	h	h	c	c	c	c	c
gar	e	e	e	e	e	e	e	t	t	t	c	c	c	e	e	e	e	e	e	c	c	c	t
gib	c	e	e	e	e	e	e	h	c	c	e	c	c	h	h	h	h	h	h	h	h	c	c
nnp			e	e	h	h																	
91	S	D	I	T	V	G	Q	Y	G	G	N	N	A	A	L	V	N	Q		T	A	S	D
aix	c	c	e	e	e	e	c	c	c	c	c	h	h	h	h	h	h	h		c	c	c	c
hie	c	c	e	e	e	e	e	c	c	c	c	c	e	e	e	e	e	c		c	c	c	c
gar	c	e	e	e	e	e	e	t	c	c	c	c	e	e	e	e	e	e		e	c	c	t
gib	c	c	e	e	e	e	e	e	c	c	c	c	h	e	e	e	e	e		c	c	c	c
nnp			e	e	e	e								h	h	h	h						
113	S	S	V	M	V	R	Q	V	G	F	G	N	N	A	T	A	N	Q	Y				
aix	c	c	e	e	e	e	e	e	e	c	c	c	c	c	c	c	c	c		c			
hie	c	e	e	e	e	e	e	e	e	c	c	c	c	c	c	c	c	c		c			
gar	e	e	e	e	e	e	e	e	e	c	c	c	c	c	c	c	e	e		e			
gib	c	c	e	e	e	e	e	e	e	e	c	c	c	c	c	h	c	h		e			
nnp			e	e	e	e	e																

Fig. 10

Serial No. 09/543,407     Docket No. 920043.406

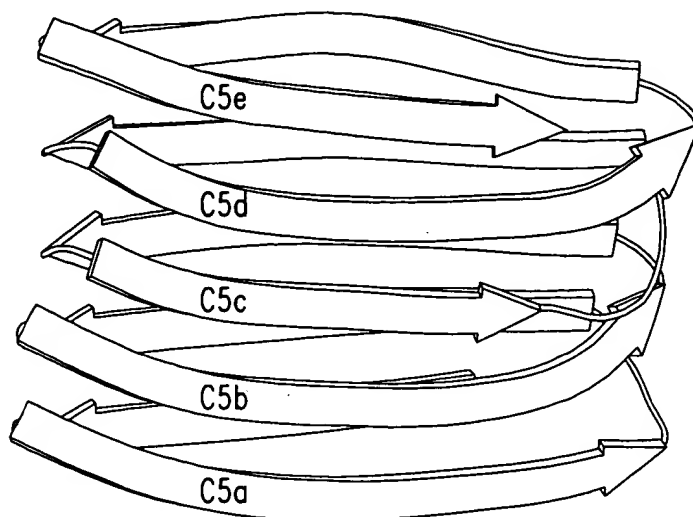
Inventor(s): Aaron P. White et al.

Express Mail No. EV449559618US     "REPLACEMENT SHEET"

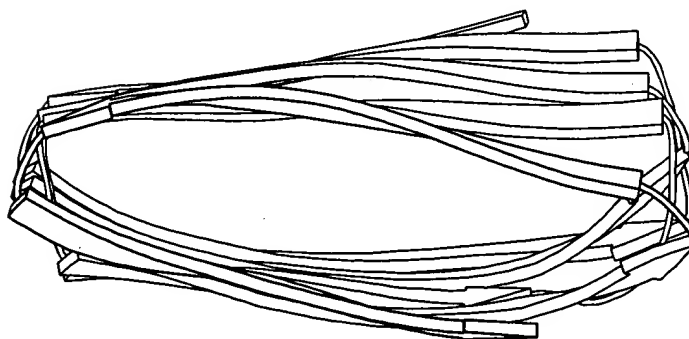


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*Fig. 11A*



*Fig. 11B*

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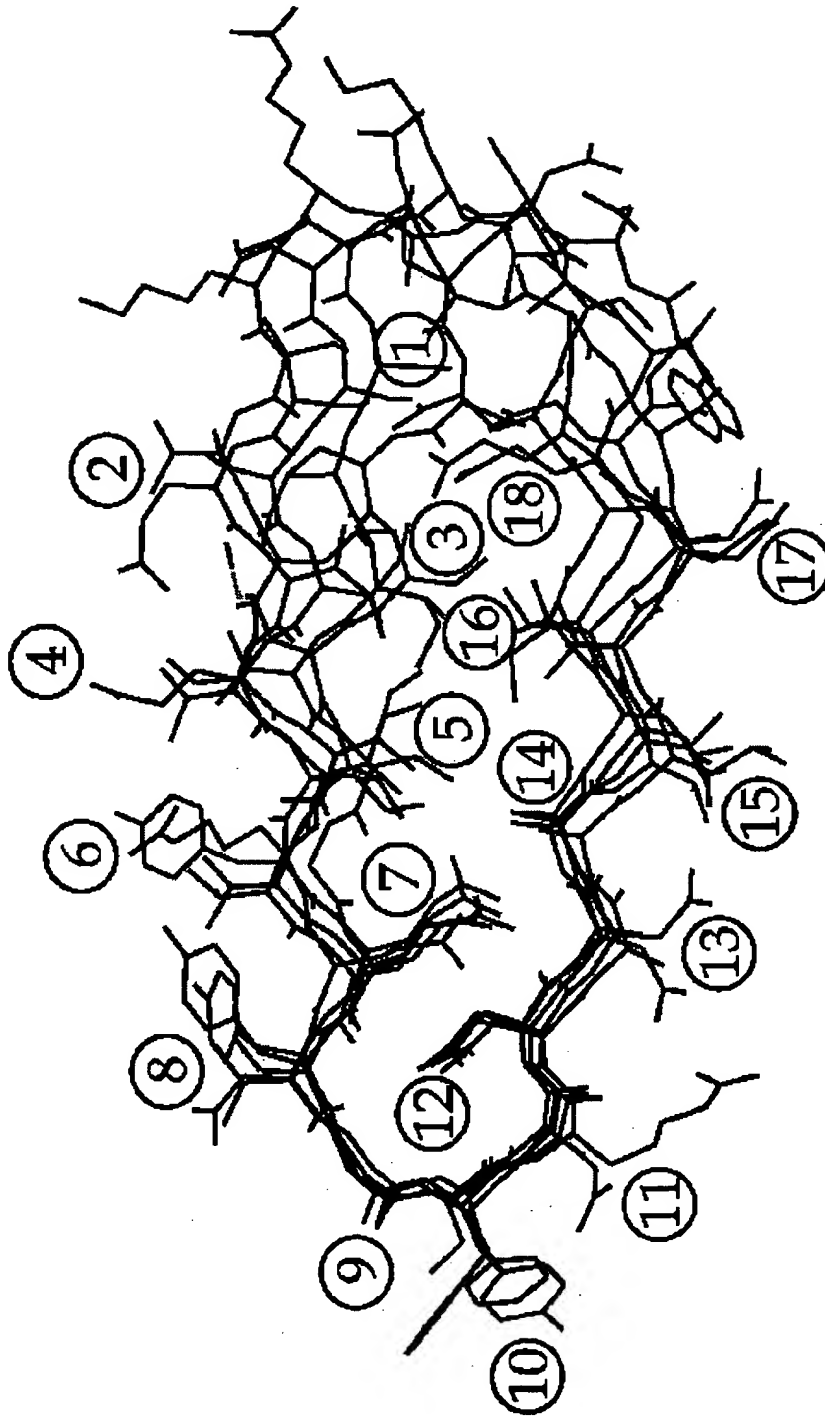


Fig. 11C

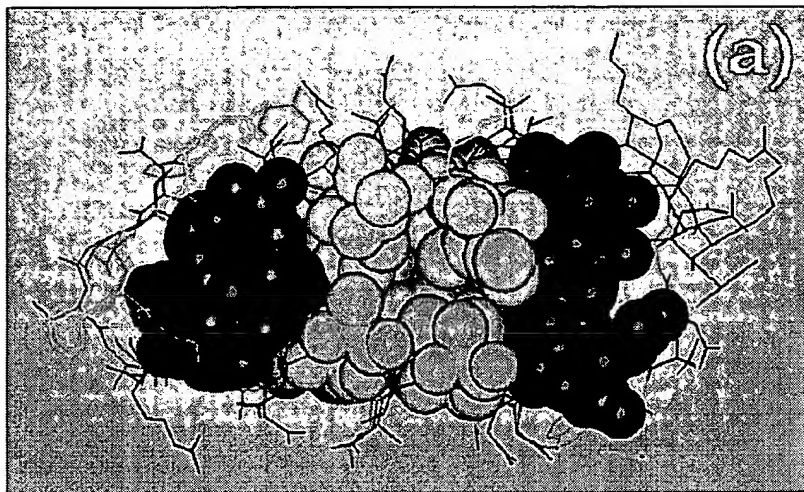




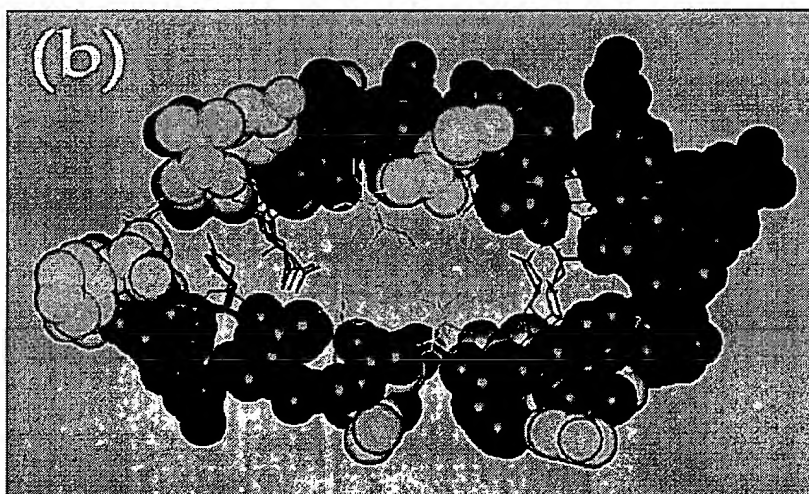


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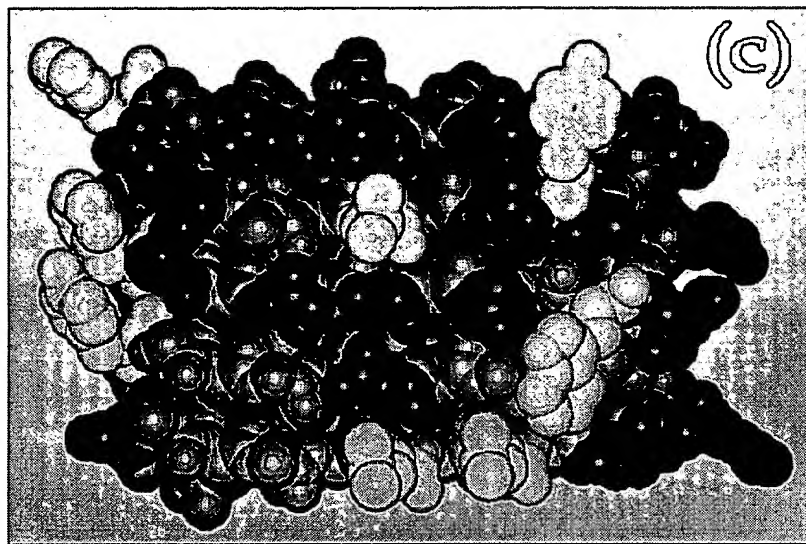
*Fig. 12A*



*Fig. 12B*



JUN 17 2004  
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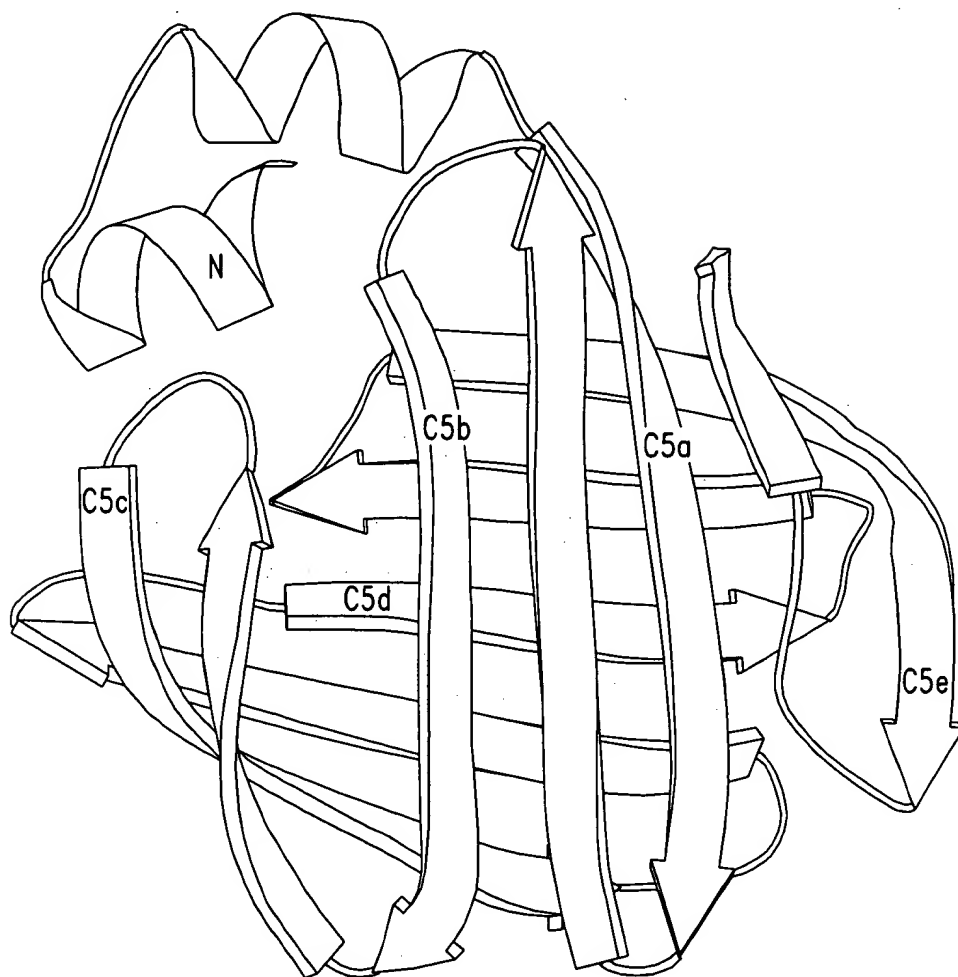
*Fig. 12C*



*Fig. 12D*



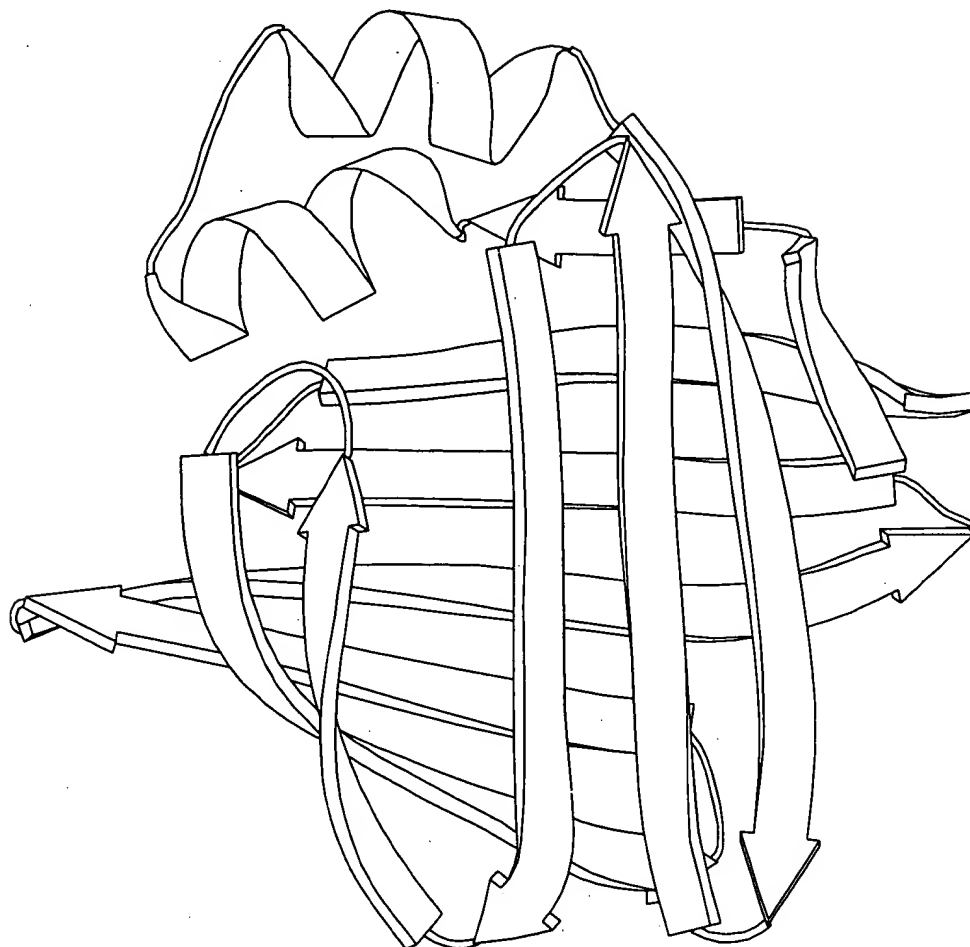
JUN 7 2004  
1600 00173 16002200



*Fig. 13A*



JUN 7 2004  
TECH CENTER 16028000

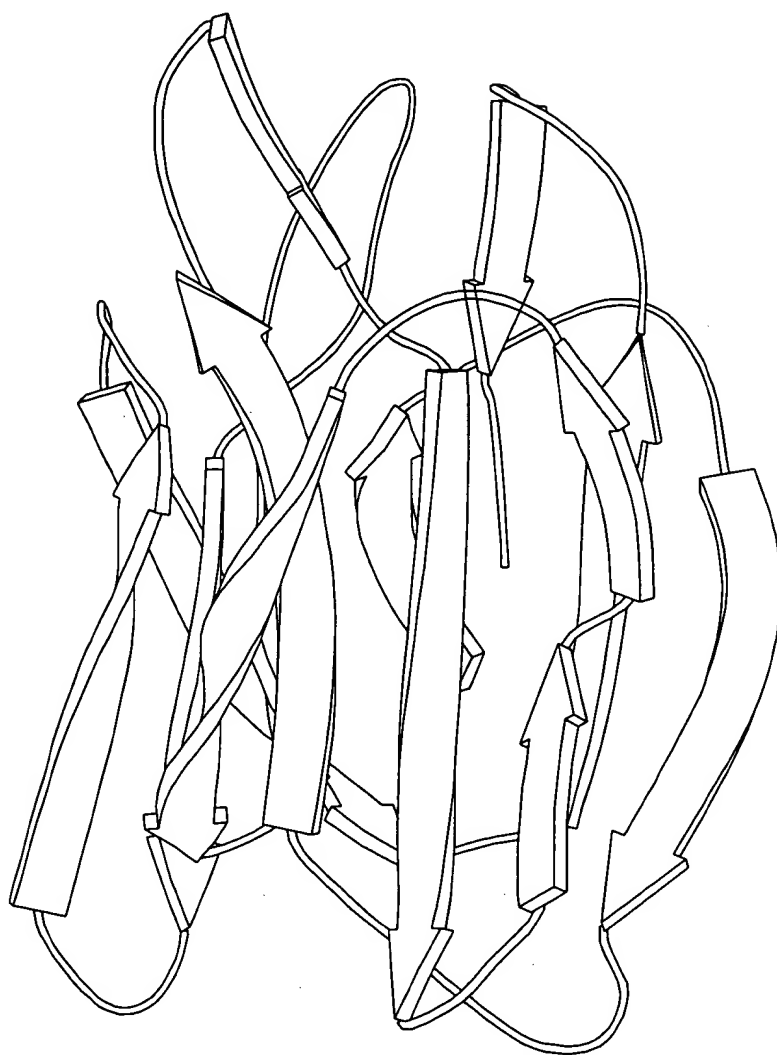


*Fig. 13B*



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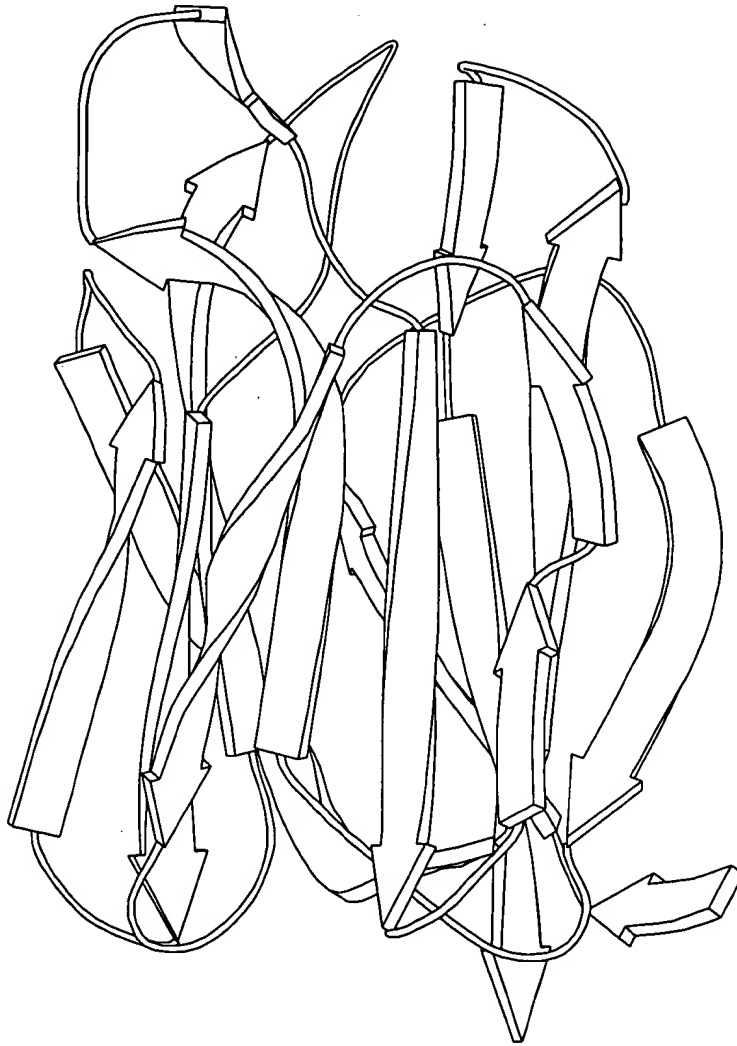
TECH CENTER 16002009



*Fig. 14A*



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*Fig. 14B*



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		●	○	●	○	●	○	●	t	t	t	t	●	○	●	○	●	○	●	t	t	t	t	t
				i	φ	i									i	φ	i							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
		S	T	L	S	I	Y	Q	Y	G	S	A	N	A	A	L	A	L	Q	S	D	A	R	K
AgfA		S	E	T	T	I	T	Q	S	G	Y	G	N	G	A	D	V	G	Q	-	G	A	D	N
		S	T	I	E	L	T	Q	N	G	F	R	N	N	A	T	I	D	Q	W	N	A	K	N
		S	D	I	T	V	G	Q	Y	G	G	N	N	A	A	L	V	N	Q	-	T	A	S	D
		S	S	V	M	V	R	Q	V	G	F	G	N	N	A	T	A	N	Q	Y				
		S	E	L	N	I	Y	Q	Y	G	G	G	N	S	A	L	A	L	Q	T	D	A	R	N
CsgA		S	D	L	T	I	T	Q	H	G	G	G	N	G	A	D	V	G	Q	-	G	S	D	D
		S	S	I	D	L	T	Q	R	G	F	G	N	S	A	T	L	D	Q	W	N	G	K	N
		S	E	M	T	V	K	Q	F	G	G	G	N	G	A	A	V	D	Q	-	T	A	S	N
		S	S	V	N	V	T	Q	V	G	F	G	N	N	A	T	A	H	Q	Y				

*Fig. 15*

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 JUN 16 2004



SMP	328	I E N A I G G S G - N D - V I V G N A A N N	347
	348	V L K G G A G - N D - V L F G G G G A D	365
	366	E L W G G A G - K D I F V F S A A S D	383
AgfA	23	S T L S I Y Q Y G S A N A A L A L Q S D A R K	45
	46	S E T T I T Q S G Y G N G A D V G Q G A D N	67
	68	S T I E L T Q N G F R N N A T I D Q W N A K N	90

*Fig. 16A*

PMP	40	V I I S K K G D I I T I R T - E S P F K N T E	61
	62	I S F K L G Q E F E E T T A D N R K T K S T V T L	86
AgfA	25	L S I Y Q Y G S A N A A L A L Q S D A R K S E	47
	48	T T I T Q S G Y G N G A D V G Q G A D N S T I E L	72

*Fig. 16B*

VMO-I	34	F A L K V E P S Q F G R D D T A L N G	52
	37	F S L R S E K S Q G G G D D T A A N N	105
	138	L Q T K V E S P Q G L R D D T A L N N	156
	25	L S I - Y Q - - Y G S A N A A L A L Q	40
	70	I E L - T Q - - N G F R N N A T I D Q	85
	115	V M V - R Q - - V G F G N N A T A N Q	130

*Fig. 16C*





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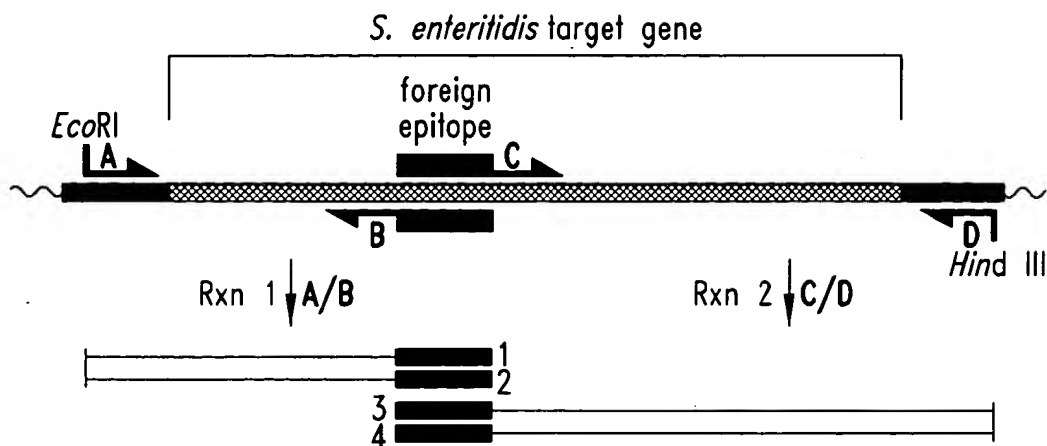


Fig. 17A

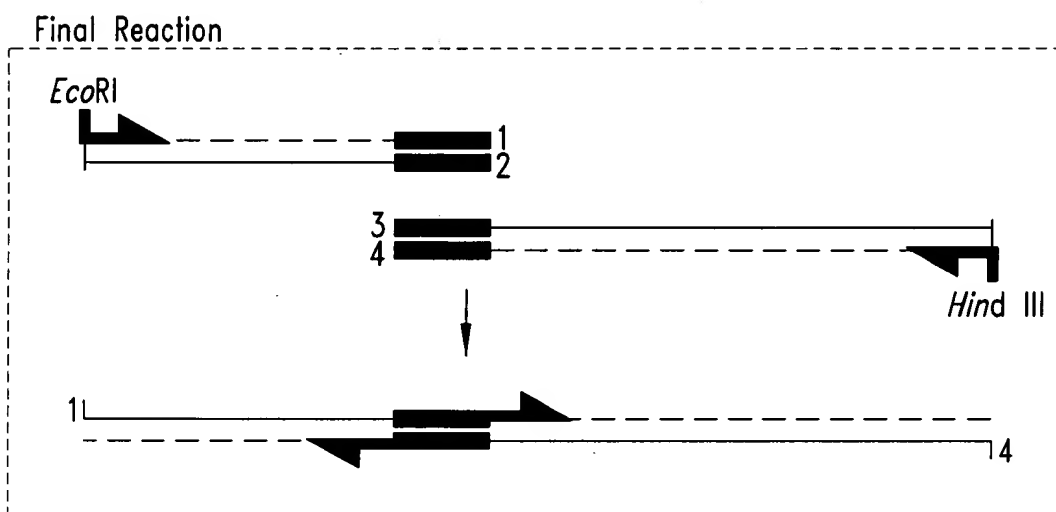


Fig. 17B

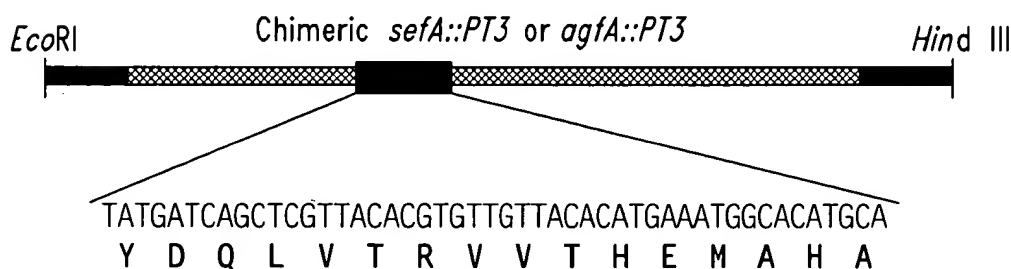


Fig. 17C

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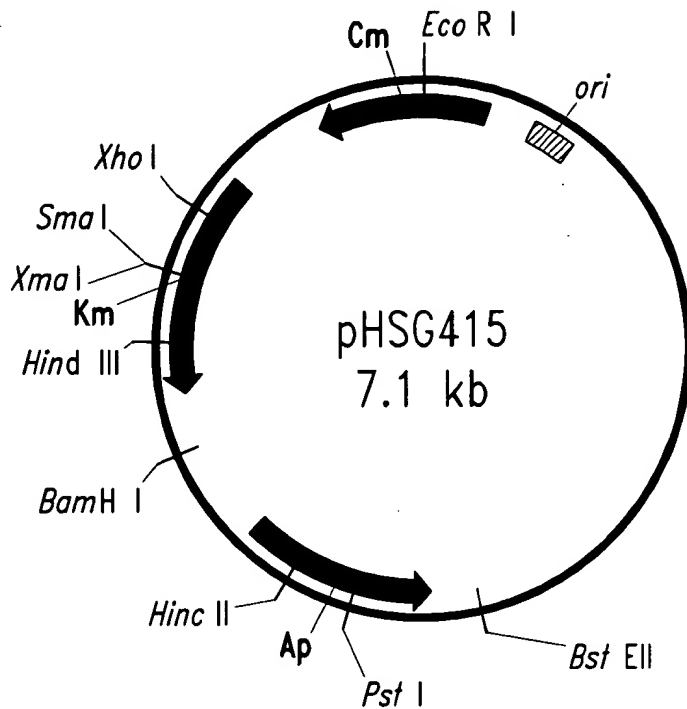


Fig. 18A

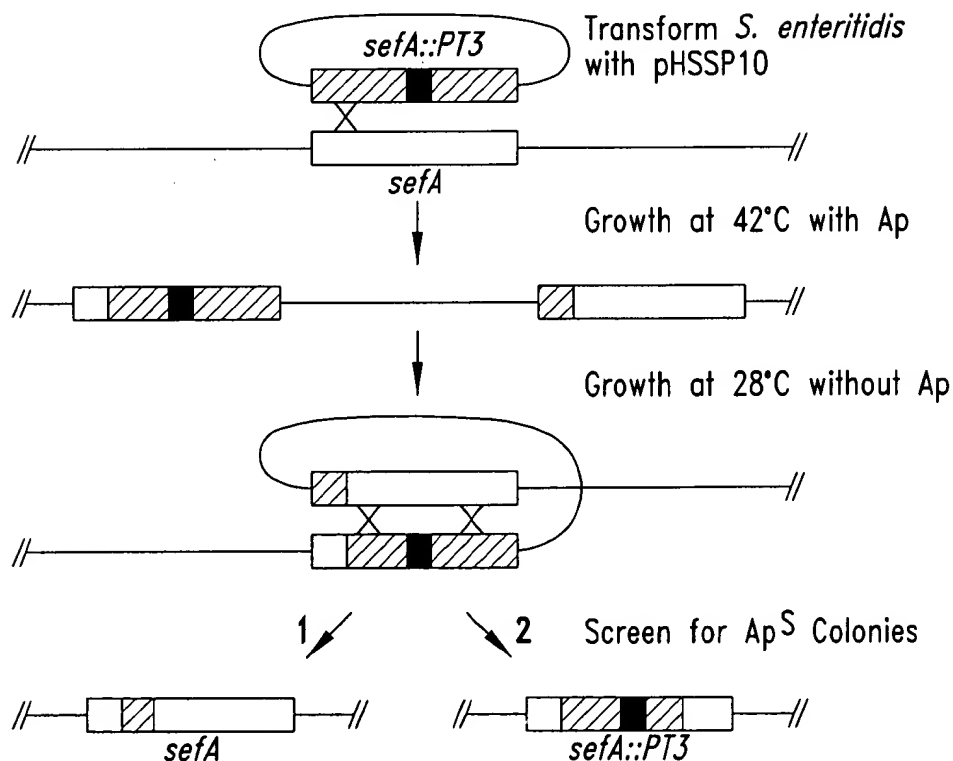
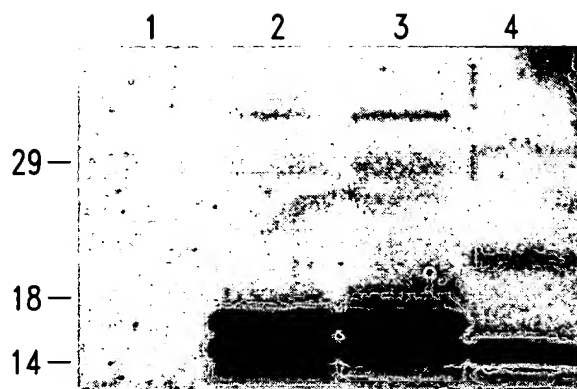
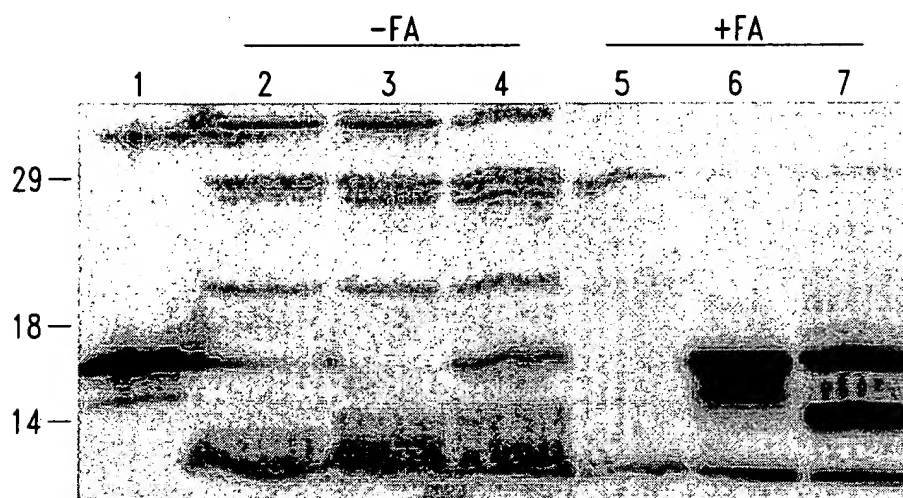


Fig. 18B

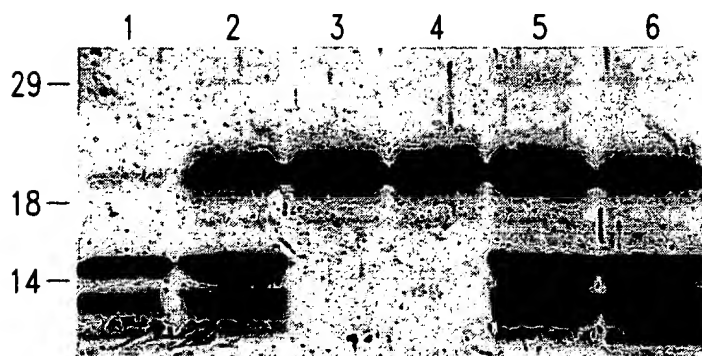
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*Fig. 19A*

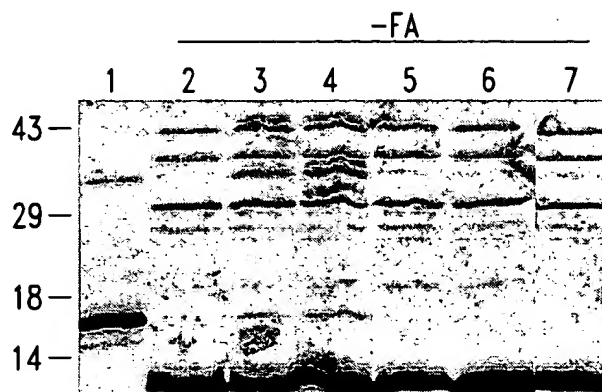


*Fig. 19B*

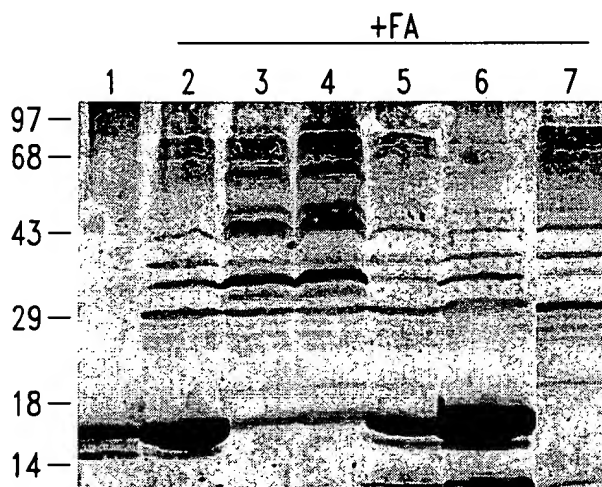


*Fig. 20*

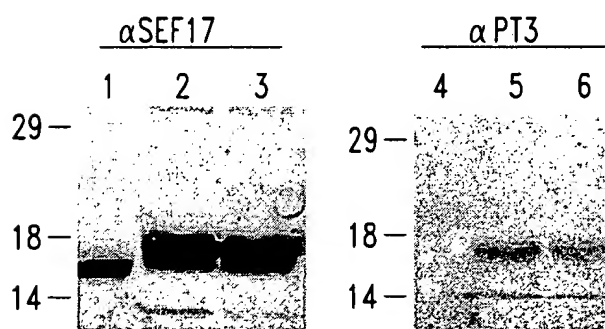
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*Fig. 21A*



*Fig. 21B*



*Fig. 22*



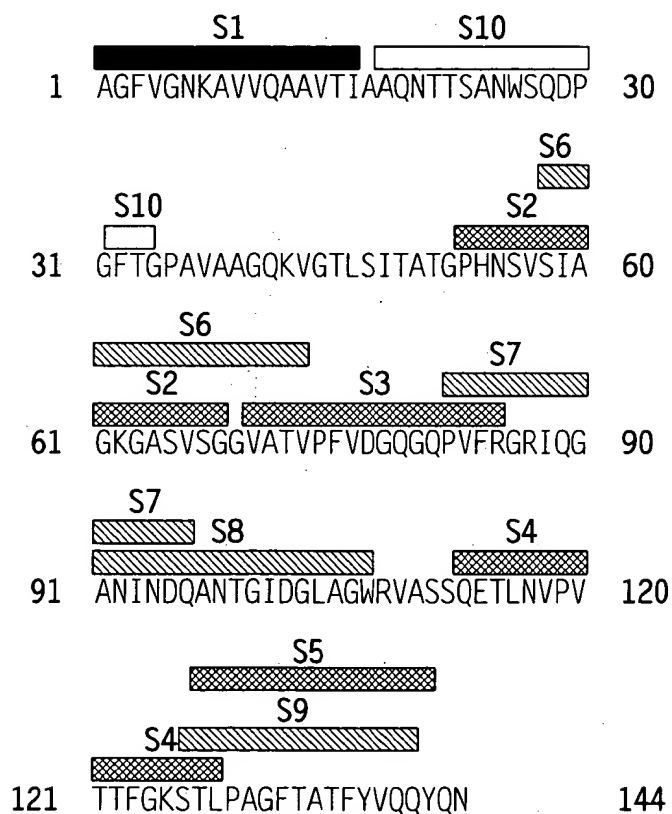
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PT3 epitope of *L. major*

YDQLVTRVVTHEMAHA

*Fig. 23A*

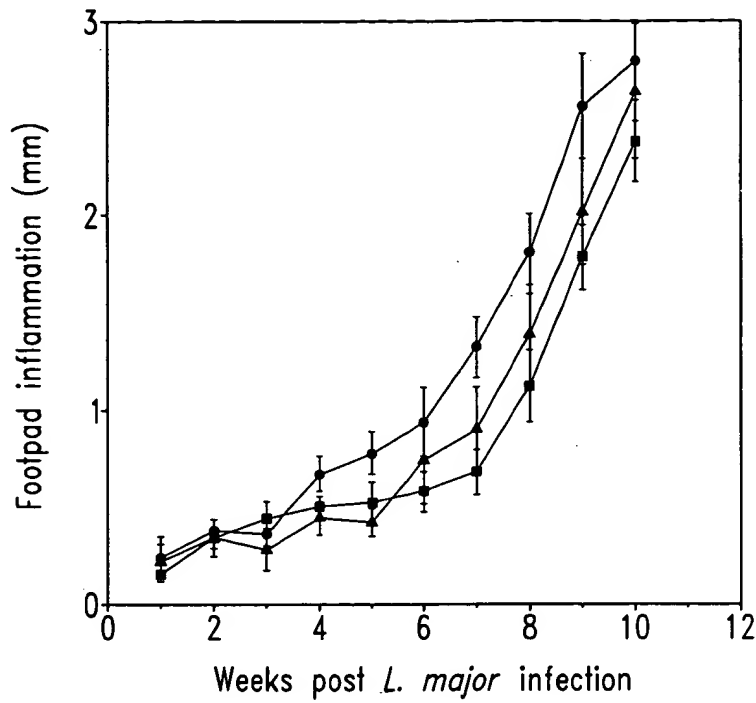
SefA amino acid sequence



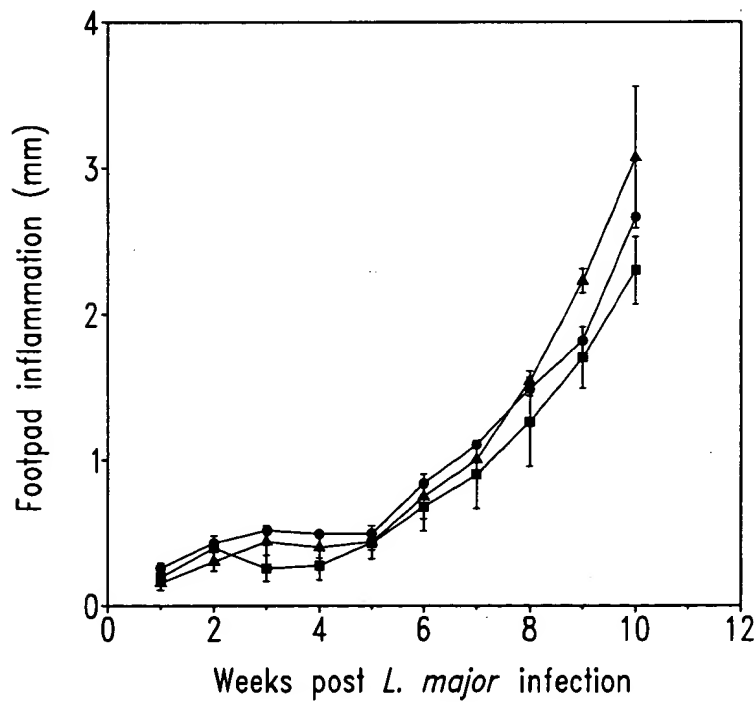
*Fig. 23B*



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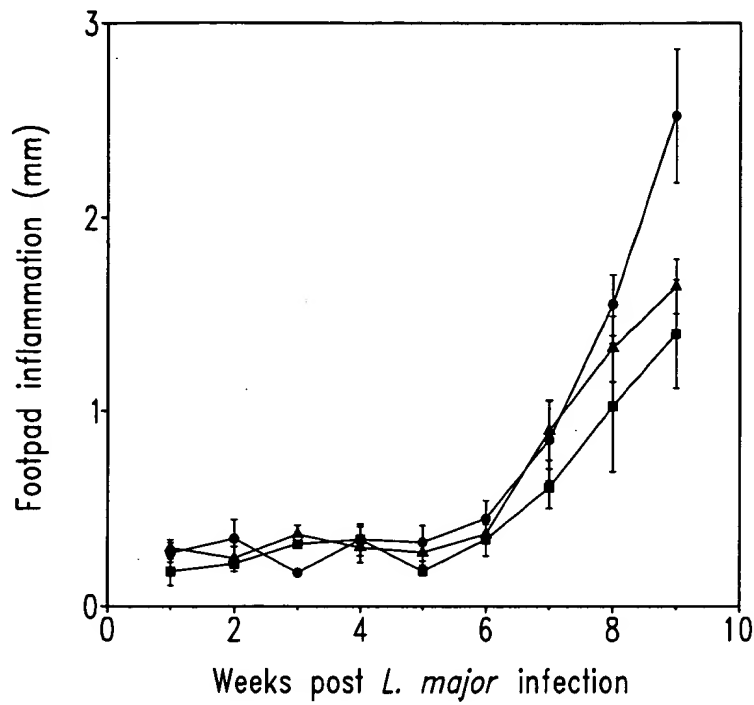
*Fig. 24A*



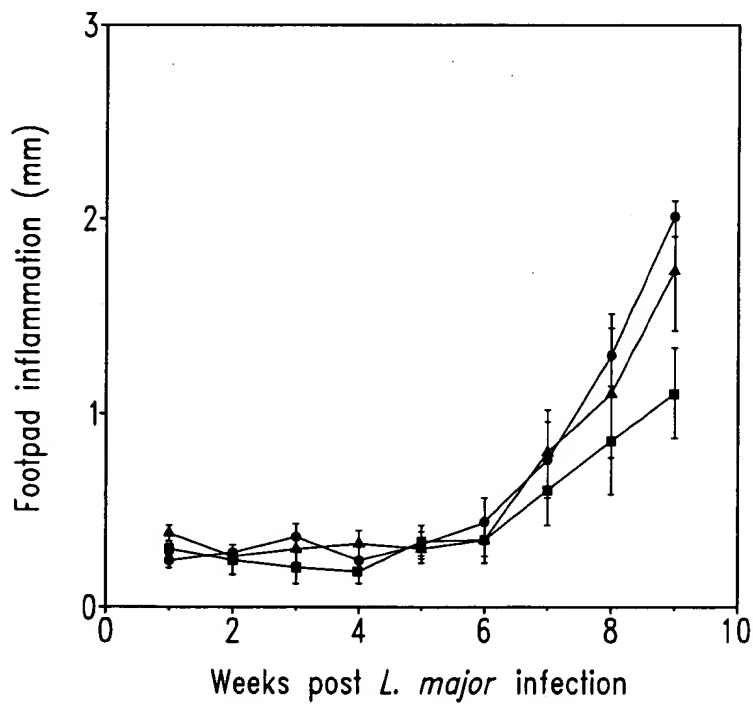
*Fig. 24B*



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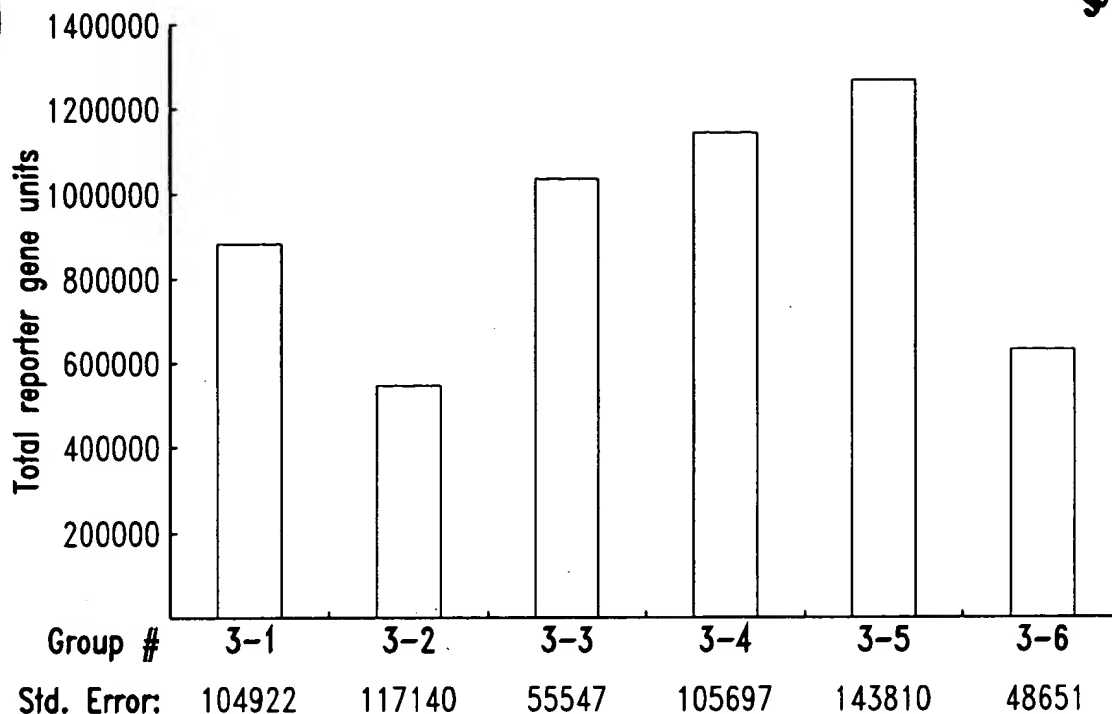
*Fig. 24C*



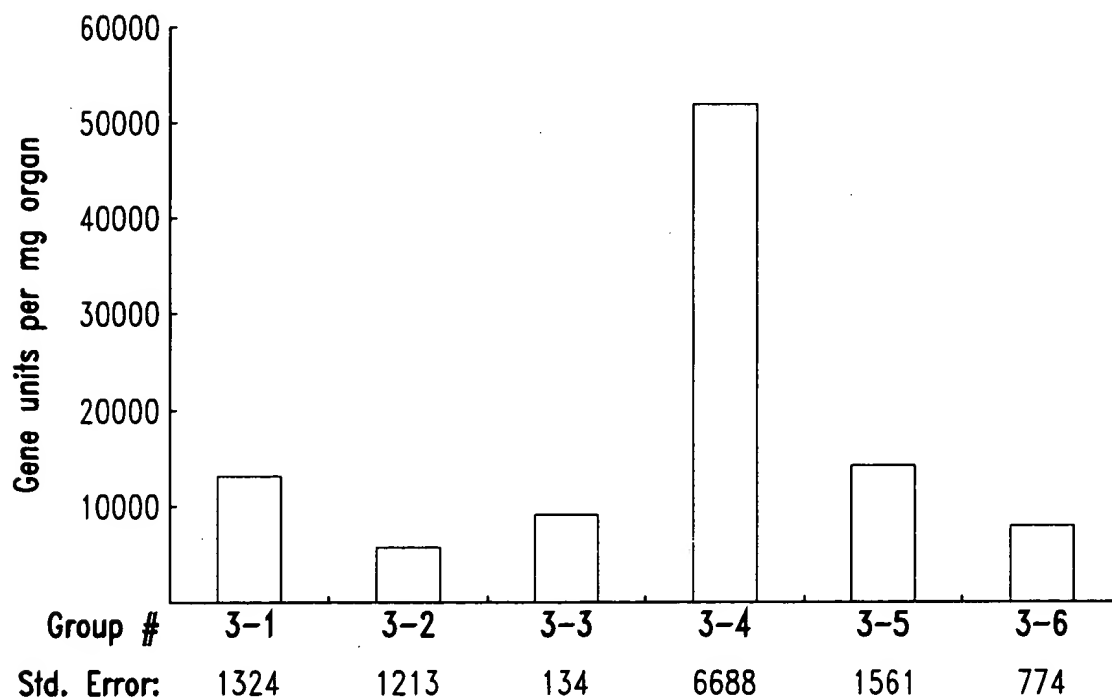
*Fig. 24D*



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*Fig. 25A*



*Fig. 25B*





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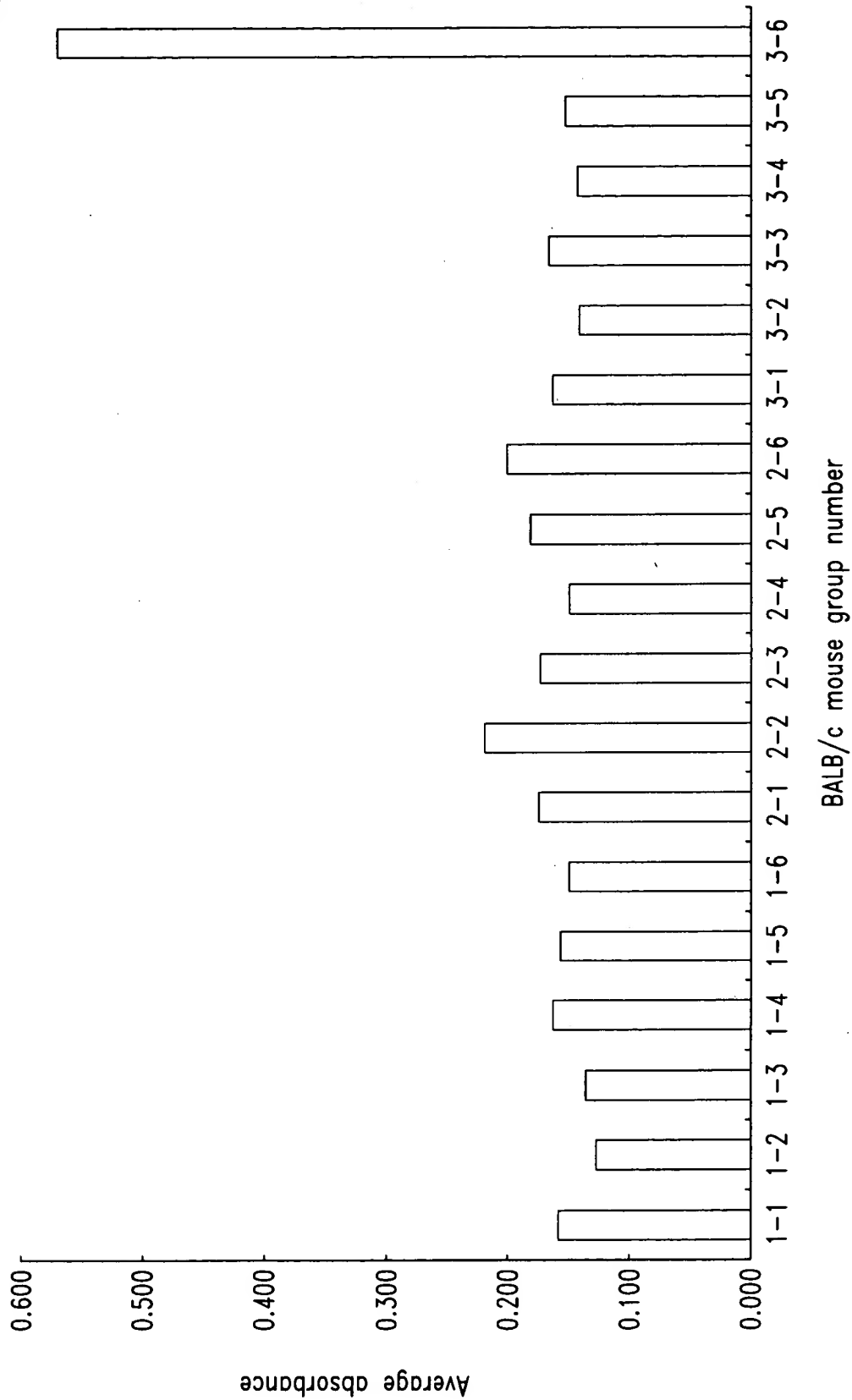


Fig. 26A

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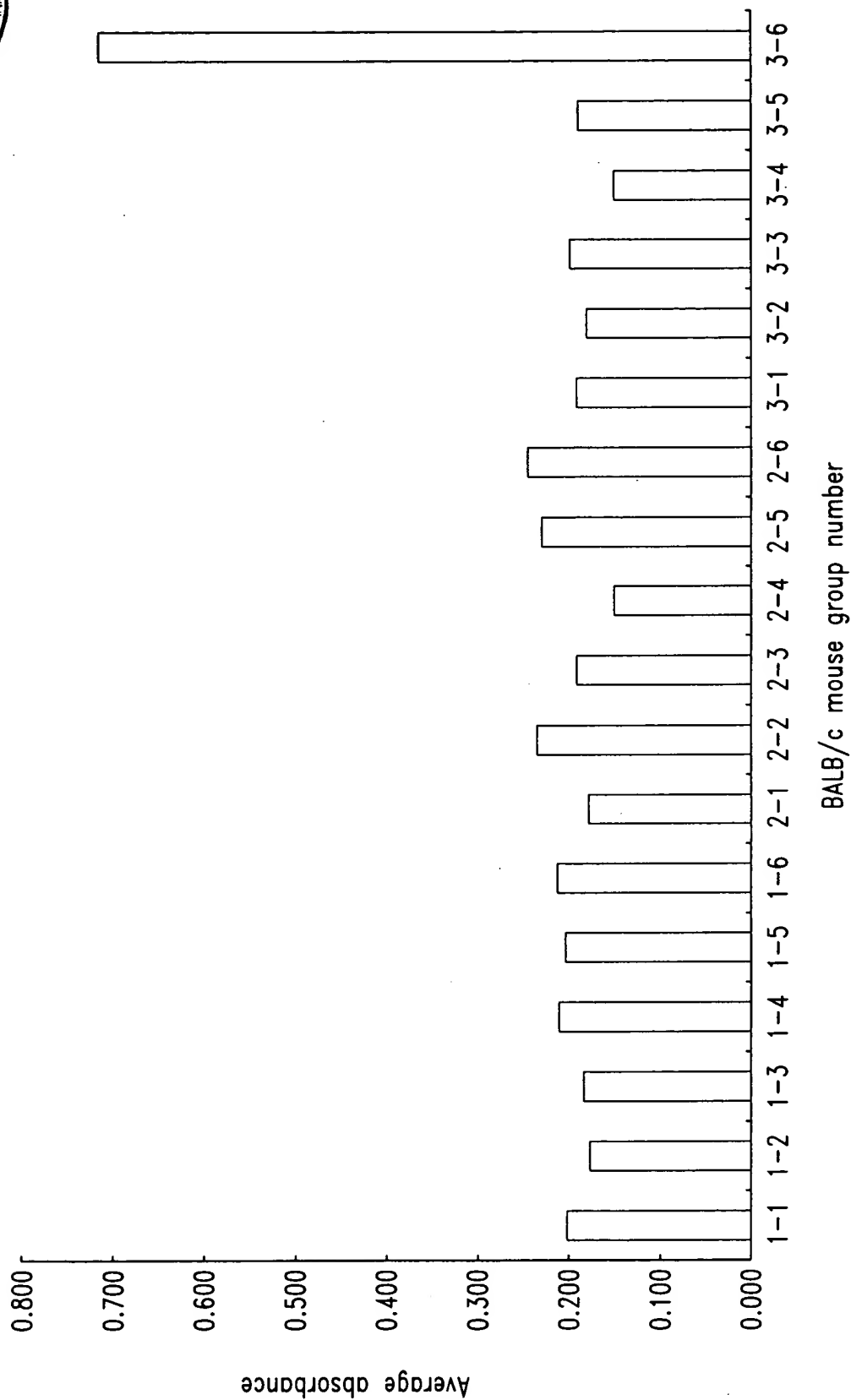


Fig. 26B



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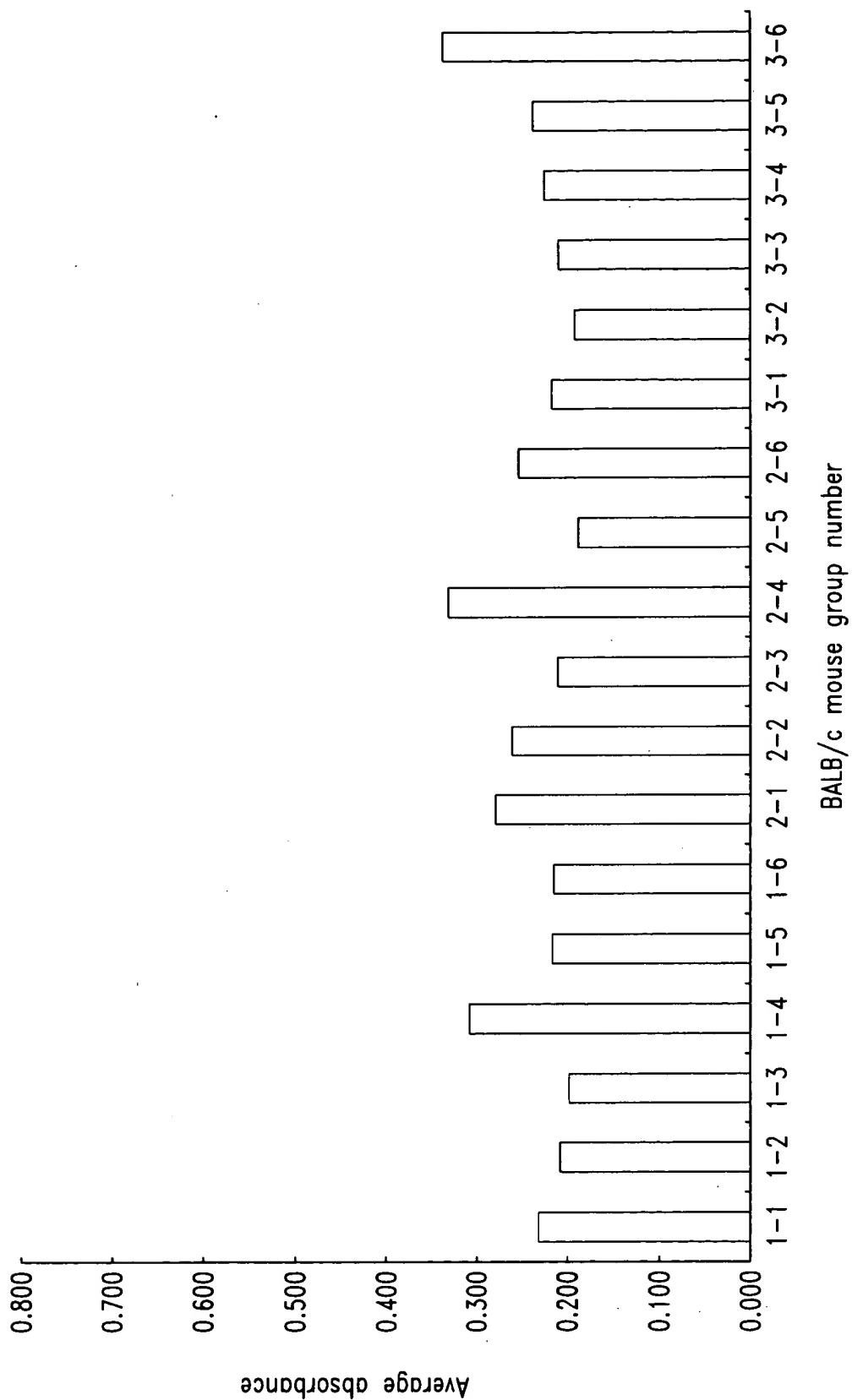


Fig. 26C